

Comparisons of Job Characteristics

Focus Occupation: **Mechanical Drafters (17-3013)**

Associated Occupation: **Mechanical Engineering Technicians (17-3027)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Mechanical Drafters (17-3013)

Associated Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	18.0	12.4	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	16.1	17.6	0	Current knowledge level may be sufficient
Design	5.2	15.1	22.0	>>	Current knowledge level is likely more than sufficient
Production and Processing	6.0	12.6	9.1	<<	Extensive education and/or training may be required
Physics	4.3	10.2	8.3	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 59

Focus Occupation: Mechanical Drafters (17-3013)

Associated Occupation: Mechanical Engineering Technicians (17-3027)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	10.7	5.1	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.2	8.1	<	A higher skill level may be required
Operation and Control	5.4	9.0	2.1	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	7.3	3.8	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	6.8	1.2	<<	Extensive development of skills in this area may be required

Repairing	3.4	6.6	1.0	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.2	2.0	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 85			
Focus Occupation: Mechanical Drafters (17-3013)					
Associated Occupation: Mechanical Engineering Technicians (17-3027)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Category Flexibility	9.0	10.7	9.7	<	Some improvement in abilities may be required
Control Precision	6.6	10.2	6.4	<<	Extensive improvement in abilities may be required
Visualization	7.5	10.2	11.7	>	Current ability level is likely sufficient
Number Facility	6.3	9.7	9.3	0	Current ability level may be sufficient
Perceptual Speed	7.4	9.6	8.6	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.2	7.7	<	Some improvement in abilities may be required
Wrist-Finger Speed	3.2	5.5	1.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 90
Focus Occupation: Mechanical Drafters (17-3013) Associated Occupation: Mechanical Engineering Technicians (17-3027)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Communicate technical information	4	
Confer with engineering, technical or manufacturing personnel	25	
Draw prototypes, plans, or maps to scale	57	
Evaluate engineering data	60	
Examine engineering documents for completeness or accuracy	62	
Follow manufacturing methods or techniques	73	
Prepare technical reports or related documentation	22	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	

Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use drafting or mechanical drawing techniques	50
Use knowledge of metric system	39
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 63

Focus Occupation: Mechanical Drafters (17-3013)
Associated Occupation: Mechanical Engineering Technicians (17-3027)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computer printers	2
Computers	1
Content authoring and editing software	1
Drafting supplies	9
Industry specific software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.